-Standard Valves-

4094-A VALVE

TRIODE.

This valve is similar to the 4012-A valve but employs a thoriated tungsten filament, molybdenum anode and hard glass bulb.

SPECIFICATION.

Cathode.

Thoriated tungsten filament. Constant voltage type.

Base.

Large 4-pin bayonet.

Dimensions.

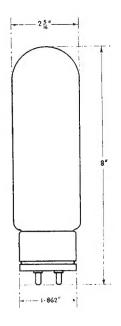
Maximum overall length 8" (20.4 cms.)

Maximum bulb diameter $2\frac{5}{16}$ " (5.9 cms.)

Net weight 0.36 lb. (164 gms.)

Constants.

Filament voltage 10 volts Nominal filament current 3.25 amps. Total emission 1.5 amps. 9,300 ohms. *Impedance *Amplification factor 37 *Mutual conductance 4 mA. per volt. Anode-grid capacity $14 \mu\mu F$. Grid-filament capacity 9 $\mu\mu$ F. Anode-filament capacity 4 $\mu\mu$ F. * at $V_p = 1,000 \text{ volts}$, $I_p = 30 \text{ mA}$.





LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage

Maximum direct anode current

Maximum anode dissipation

Maximum direct grid current

Maximum frequency for above ratings

Maximum anode voltage for frequency of 30 Mc.

Maximum anode voltage for frequency of 30 Mc.

Note: —This valve should be mounted so that the plane of the filament is vertical.

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TYPICAL OPERATING CONDITIONS.

	Class B. A.F. Amp. and Mod. For balanced 2-valve circuits.		
Direct anode voltage	1,250	1,000 volts	
Grid bias (approx.)	25	—17 volts	
Anode current per valve—zero signal	0-030	0.030 amps.	
Maximum signal	0-150	0.150 amps.	
Anode dissipation	80	70 watts	
Load resistance—anode to anode	8,000	6,000 ohms	
Maximum output—2 valves	200	160 watts	

RADIO FREQUENCY OPERATION.

	Class E	. Telephony	
	Modulated carrier applied to grid		
Direct anode voltage Direct anode current Grid bias Carrier output Anode dissipation	1,250 0·105 30 45 85	1,000 volts 0·130 amps. —20 volts 43 watts 87 watts	

	Class C. Telephony Subject to anode modulation		Class C. Telegraphy Unmodulated	
Direct anode voltage Direct anode current Grid bias				
	1,000 0·150 —60	750 0·130 —40	1,250 0·150 —70 to —120	1,000 volts 0·150 amps. 60 to 100 volts
Carrier output Anode dissipation	100 50	65 32	130 57·5	100 watts 50 watts

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